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DESCRIPTIONS OF NEW SPECIES OF PUCCINIA AND UROMYCES.

By S. M. TRACY.

PUCCINIA ARISTIDÆ *n. sp.*—(II, III). Rarely amphigenous, usually on the inside of the sheath. Sori oval to narrowly elliptical, sometimes confluent, ruptured epidermis prominent. Uredospores brownish yellow, subglobose or oval, epispore thick, minutely tuberculate, 23–27 by 23–32 μ . Teleutospores light brown, broadly oval, slightly constricted, epispore smooth, thickened at the apex, 25–28 by 40–45 μ . Pedicel slightly tinted; tapering, about twice the length of the spore. On *Aristida pungens*; herb. *A. Regel*, Turkestan, 1887.

PUCCINIA PALLIDA *n. sp.*—(III). Hypophyllous. Sori small, dark, scattered. Teleutospores light-colored, clavate, constricted, apex very much thickened and rounded, or somewhat pointed, 12–14 by 42–52 μ . Pedicel very short, almost wanting. On *Osmorrhiza*. Platteville, Wis., October, 1887.

PUCCINIA REDFIELDIÆ *n. sp.*—(III). Sori oval, sometimes becoming linear by confluence, black. Teleutospores dark brown, broadly elliptical or oval, constricted, epispore smooth, thickened at the apex, 23–26 by 40–45 μ . Pedicel tinted, rather large, twice to three times the length of the spore. On *Redfieldia flexuosa*. Dr. George Vasey, Kansas, 1889.

UROMYCES ANDROPOGONIS *n. sp.*—(II, III). Hypophyllous. Sori oval or oblong, sometimes confluent. Uredospores light colored, subglobose, sharply echinulate, 15–17 by 16–19 μ . Teleutospores dark brown, broadly oval, apex obtuse, rounded, strongly thickened, 14–16 by 24–28 μ . Pedicel somewhat tinted, twice the length of the spore. On *Andropogon virginicus*. Starkville, Miss., October, 1891.

UROMYCES ERAGROSTIDIS *n. sp.*—(II, III). Amphigenous. Sori minute, scattered, long, covered with the epidermis. Uredospores light yellow, subglobose, echinulate 16–18 by 17–20 μ . Teleutospores usually oval or obovate, often angular, epispore smooth, thickened at the apex, 14–16 by 22–28 μ . Pedicel slightly tinted, as long as the spore. On *Eragrostis pectinacea*. Starkville, Miss., October, 1891.

UROMYCES PANICI *n. sp.*—(II, III). Hypophyllous. Sori oval or oblong, sometimes becoming confluent. Uredospores light yellow, faintly echinulate, globose, 12–16 μ . Teleutospores dark brown, oval, smooth, apex thickened and sometimes beak-like, 14–16 by 26–30 μ . Pedicel tapering, tinted, somewhat longer than the spore. On *Panicum anceps*. J. M. White, Martin, Miss., September, 1891.

UROMYCES HORDEI *n. sp.*—(III). Hypophyllous. Sori minute, scattered, round or oval. Teleutospores brown, quite irregular, but usually oval or broadly clavate, epispore smooth, slightly thickened above, 15–18 by 22–26 μ . Pedicel very short. On *Hordeum pratense*, New Orleans, La., May, 1891.